

1 What is claimed is:

- 2 1. A method for displaying an image of a dragging object during a drag and drop
3 operation, comprising:
 - 4 installing one or more keyboard and mouse event listeners to a Java application
5 implemented in a window, wherein the one or more keyboard and mouse event listeners
6 follows movements of a mouse cursor;
 - 7 attaching a custom glass pane to the window, wherein the mouse cursor is located
8 in the window; and
 - 9 displaying a drag image approximate the mouse cursor using the custom glass
10 pane, wherein the drag image represents the dragging object and moves with the mouse
11 cursor.
- 12 2. The method of claim 1, further comprising removing the custom glass pane from
13 the window after the drag and drop operation.
- 14 3. The method of claim 1, wherein the displaying step includes repainting the drag
15 image using the custom glass pane.
- 16 4. The method of claim 1, wherein the displaying step comprises:
 - 17 detaching the custom glass pane from a previous window; and
 - 18 attaching the custom glass pane to a next window where the mouse cursor is
19 currently located.
- 20 5. The method of claim 1, wherein the displaying step includes using a standard drag
21 and drop application programming interface (API) specification.
- 22 6. The method of claim 1, wherein the installing step includes installing the one or
23 more keyboard and mouse event listeners at a global application level.
- 24 7. The method of claim 1, further comprising saving a currently installed glass pane
25 in a storage device before attaching the custom glass pane to the window.
- 26 8. The method of claim 1, further comprising reattaching a previously saved glass
27 pane to the window after removing the custom glass pane from the window after the drag
28 and drop operation.
- 29 9. An apparatus for displaying an image of a dragging object during a drag and drop
30 operation, comprising:
 - 31 a window for implementing a Java application;
 - 32 one or more keyboard and mouse event listeners for following movements of a
33 mouse cursor; and

1 a custom glass pane attached to the window, wherein the custom glass pane
2 displays a drag image approximate the mouse cursor, and wherein the drag image
3 represents the dragging object and moves with the mouse cursor.

4 10. The apparatus of claim 9, wherein the custom glass pane is removed from the
5 window after the drag and drop operation.

6 11. The apparatus of claim 9, wherein the drag image is repainted to the window by
7 the custom glass pane.

8 12. The apparatus of claim 9, wherein the custom glass pane is detached form a
9 previous window and attached to a next window where the mouse cursor is currently
10 located.

11 13. The apparatus of claim 9, wherein a currently installed glass pane is saved in a
12 storage device before the custom glass pane is attached to the window.

13 14. The apparatus of claim 9, wherein a previously saved glass pane is reattached to
14 the window after the custom glass pane is removed from the window after the drag and
15 drop operation.

16 15. A computer readable medium providing instructions for displaying an image of a
17 dragging object during a drag and drop operation, the instructions comprising:

18 installing one or more keyboard and mouse event listeners to a Java application
19 implemented in a window, wherein the one or more keyboard and mouse event listeners
20 follows movements of a mouse cursor;

21 attaching a custom glass pane to the window where the mouse cursor is located;
22 and

23 displaying a drag image approximate the mouse cursor using the custom glass
24 pane, wherein the drag image represents the dragging object and moves with the mouse
25 cursor.

26 16. The computer readable medium of claim 15, further comprising instructions for
27 removing the custom glass pane from the window after the drag and drop operation.

28 17. The computer readable medium of claim 15, wherein the instructions for
29 displaying include instructions for repainting the drag image using the custom glass pane.

30 18. The computer readable medium of claim 15, wherein the instructions for
31 displaying comprises instructions for:

32 detaching the custom glass pane from a previous window; and

33 attaching the custom glass pane to a next window where the mouse cursor is
34 currently located.

- 1 19. The computer readable medium of claim 15, further comprising instructions for
2 saving a currently installed glass pane in a storage device before attaching the custom
3 glass pane to the window.
- 4 20. The computer readable medium of claim 1, further comprising instructions for
5 reattaching a previously saved glass pane to the window after removing the custom glass
6 pane from the window after the drag and drop operation.

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